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U.S. Department of Agriculture

A. M. GROOTENDORST . . . WHOLESALE GROWER

P. O. BOX 123 BENTON HARBOR, MICHIGAN

OFFICE AND FARM
US-12, 3 Miles East of City
TELEPHONES
Office, 5-2535 Home, 5-2466

May 1, 1951

FINAL SURPLUS OFFER

LAST CALL

LAST CALL

BEST QUALITY --- PROMPT SERVICE

PRICE PER 1000: 100 of a kind at 1000 rate. Less than 100 add 10%.
(Minimum quantity 25 of a kind)

GLADIOLUS:	No.1	No.2	No.3	GLADIOLUS:	No.1	No.2	No.3
Abu Hassan.....	\$--	\$32.	\$26.	Malay Chief....	\$--	\$--	\$20.
Algonquin.....	--	26.	--	Margaret Fulton	--	--	12.
Badger Beauty....	--	26.	20.	Minuet.....	--	26.	20.
Bagdad.....	--	--	15.	Miss Bloomington	--	--	15.
Blue Beauty.....	--	28.	--	Miss Wisconsin.	--	32.	24.
Burma.....	--	38.	30.	* Morning Kiss...	30.	24.	18.
Casa Blanca.....	--	18.	--	New Europe.....	--	--	18.
Charmaine.....	--	22.	15.	Oregon Gold....	--	28.	22.
Corona.....	--	28.	18.	Parnassus.....	--	28.	22.
Debonair.....	--	18.	14.	Purple Supreme.	--	24.	18.
Dream O'Beauty...	--	--	15.	Red Charm.....	--	28.	22.
* Eliz. the Queen..	28.	22.	15.	Rewi Fallu....	--	--	18.
Elwood.....	--	22.	15.	Rosa van Lima..	--	22.	--
Ethel Cave Cole..	--	--	15.	Silver Gull....	40.	32.	25.
Gold Dust.....	--	--	12.	Silver Wings...	40.	32.	25.
Hawkeye Red.....	--	20.	14.	* Snow Princess..	22.	18.	12.
Hopman's Glory...	--	26.	--	* Spotlight,yellow	40.	32.	25.
Jules Amott.....	--	24.	18.	Stoplight, red.	--	24.	18.
June Bells.....	--	18.	--	Tahiti.....	--	--	15.
King Lear.....	--	24.	18.	Tivoli.....	40.	32.	--
* Lady Jane.....	25.	20.	15.	Vagabond Prince	--	25.	18.
Lavender Dream...	--	26.	20.	Vredenburg.....	30.	24.	18.
Lavender Ruffles.	--	22.	14.	Wanda.....	25.	20.	16.
* Leading Lady.....	30.	24.	18.	* White Gold.....	30.	24.	18.
Leona.....	--	23.	18.	Yellow Herald..	--	20.	15.
Maid of Orleans..	--	20.	--	Exhibition Mixed	22.	18.	12.

* Available in jumbo size at the regular No.1 price

PACKAGED GLADIOLUS

		Per Box
ILLUSTRATED BOXES.	1 each of 12 distinct varieties per box.	
Order in	1st size (1½" & up).....	\$0.35
units of 40	2nd size (1¼-1½").....	.30
		Per Bag
ILLUSTRATED BAGS	25 choice mixed gladiolus bulbs per bag.	
Order in	1st size (1½" & up).....	\$0.60
units of 20	2nd size (1¼-1½").....	.50

GLADIOLUS COLLECTIONS

COLLECTION "A"	100 each of 20 different varieties of our selection, correctly labeled)	2nd size.	For only \$40.
	2000 bulbs in all.....)	3rd size.	For only 30.
COLLECTION "B"	100 each of 10 different varieties of our selection, correctly labeled)	1st size.	For only \$25.
	1000 bulbs in all.....)	2nd size.	For only 20.
		3rd size.	For only 15.
COLLECTION "C"	50 each of 10 different varieties of our selection, correctly labeled)	1st size.	For only \$14.
	500 bulbs in all.....)	2nd size.	For only 11.
		3rd size.	For only 8.
COLLECTION "D"	100 each of 5 choice varieties of our selection, correctly labeled)	1st size.	For only \$12.50
	500 bulbs in all.....)	2nd size.	For only 10.00
		3rd size.	For only 7.50

- - PRICES ON FALL BULBS NOW ESTABLISHED. SEND US YOUR LIST FOR QUOTATION - -

MISCELLANEOUS BULBS AND PERENNIALS
(6 of a kind at dozen rate; 25 at 100 rate)

<u>DAHLIAS: (large-flowering)</u>			Doz.	100
A. D. Livoni.....	\$1.80	\$12.		
Avalon.....	1.80	12.		
Blue Rose.....	4.50	30.		
Commando.....	3.00	20.		
Francis Larocco.....	2.70	18.		
French Buff.....	2.70	18.		
Gallant Fox.....	2.20	15.		
Jane Cowl.....	3.00	20.		
Jean Kerr.....	2.20	15.		
Jean Trimbee.....	5.00	35.		
Jersey's Beauty.....	3.00	20.		
Maffie.....	6.00	40.		
Marshall's Pink.....	3.00	20.		
Mrs. I de ver Warner.....	2.70	18.		
Pink Flamingo.....	5.00	35.		
Red Jersey's Beauty.....	2.70	18.		
Rose Glory.....	3.00	20.		
Son of Satan.....	4.50	30.		
The Commodore.....	2.20	15.		
Thomas A. Edison.....	5.00	35.		
White Millionaire.....	2.70	18.		
Mixed Colors and Types...	1.80	12.		

<u>POMPON AND MINIATURE DAHLIAS</u>			Doz.	100
Amber Queen.....	\$1.50	\$10.		
Arthur Kerley.....	1.80	12.		
Bronze Beauty.....	1.50	10.		
Buddy.....	3.00	20.		
Catherine.....	1.80	12.		
Edith Mueller.....	1.80	12.		
Gertrude.....	2.20	15.		
Little David.....	2.20	15.		
Lucy Fawcett.....	2.20	15.		
MacKay's Purity.....	2.20	15.		
Morning Mist.....	1.80	12.		
Rothout.....	1.80	12.		
Sylvia.....	2.20	15.		
White Fawn.....	1.80	12.		
Yellow Gem.....	2.20	15.		
Mixed Pompons and Miniature	.50	10.		

LARGE-FLOWERING DAHLIA COLLECTION
6 each of 6 popular varieties,
of our choice for only..... \$5.00

POMPON AND MINIATURE COLLECTION
6 each of 6 different varieties,
of our choice for only..... \$4.00

PACKAGED DAHLIA TUBERS: A beautiful box containing 1 each of 6 distinct
Packed 20 large-flowering dahlias. Complete planting \$20.00
boxes per case directions on every box..... per case

<u>LILIUM (Hardy Lilies)</u>			Doz.	100
Henryi	8-9" circ.....	\$3.50	\$24.	
"	7-8" circ.....	3.00	20.	
Regale	10-11" circ.....	3.75	25.	
"	9-10" circ.....	3.00	20.	
"	8-9" circ.....	2.20	15.	
"	7-8" circ.....	1.80	12.	
"	6-7" circ.....	1.40	9.	
"	5-6" circ.....	1.20	7.	
"	4-5" circ.....	1.00	6.	
Superbum	1st size.....	2.40	16.	
"	2nd size.....	1.50	10.	
Umbellatum	6-8" circ.....	2.70	18.	

<u>HYACINTHUS</u>			100	1000
Candicans	2½-3" diam.....	\$5.00	\$40	
	2-2½" diam.....	4.00	32.	

<u>OXALIS</u>			No.	
Deppei	No. 1.....	1.50	10.	
	No. 2.....	1.00	7.	
Lasiandra	No. 1.....	2.00	15.	
	No. 2.....	1.50	10.	

<u>MONTBRETIAS</u>			Doz.	100
Mixed.....	\$.75	\$ 5.		

<u>ARTEMISIA</u>				
Silver King.....	\$1.80	\$12.		

<u>DAISY (double)</u>				
Mount Shasta.....	\$2.20	\$15.		

<u>LIATRIS</u>				
Pycnostachya.....	\$1.50	\$10.		
Scariosa.....	1.80	12.		

<u>TRITOMA</u>				
Alcazar.....	\$2.40	\$16.		
Goldmine.....	1.50	10.		
Primrose Beauty.....	1.80	12.		
Royal Standard.....	3.00	20.		

<u>CHRYSANTHEMUMS (Field-grown clumps)</u>			
	TYPE	HEIGHT	SEASON
Allegro.....	D	25"	E
Aviator.....	P	24"	E
Bokhara.....	D	24"	MS
Border Purple...	D	18"	E
Bonfire.....	D	30"	E
Candlelight.....	D	18"	VE
Chris Columbus..	D	24"	E
Echoes.....	SD	24"	E
Golden Surprise.	D	24"	E
Harbor Lights...	D	26"	E
Jean Treadway...	D	30"	E
Lavender Prince.	P	16"	E
Little Eskimo...	P	14"	VE
Mrs. P. S. Dupont	D	30"	MS
Olive Longland..	D	24"	E
Pearl Harbor....	D	24"	E
September Bronze	P	18"	E
September Cheer.	D	14"	E
September Cloud.	D	20"	E
Silver Moon.....	SD	30"	E
Tasiva.....	D	15"	E

<u>CUSHION TYPE MUMS</u>				
Major Cushion...	D	15"	E	
Yellow Fairy....	P	16"	E	
Yellow Supreme..	D	15"	E	

PRICE: \$20.00 per 100
\$ 3.00 per dozen

SPECIAL CHRYSANTHEMUM COLLECTION
6 each of 6 selected varieties of
our choice, correctly labeled.
36 clumps in all for only.....\$8.00

HEMEROCALLIS COLLECTION
6 each of 5 selected varieties,
our choice, correctly labeled.
30 plants in all for only.....\$3.50

TERMS: F. O. B. Benton Harbor, Michigan. 3% discount for cash with order.
Net 30, 2% ten days to customers of established credit.
Subject prior sale. State second choice when ordering.

THE
FOLLOWING
TABLE
GIVES
A
SUMMARY
OF
THE
RESULTS
OBTAINED
IN
THE
EXPERIMENTS
CONCERNING
THE
EFFECT
OF
TEMPERATURE
ON
THE
RATE
OF
REACTION
BETWEEN
SODIUM
HYDROXIDE
AND
SODIUM
CARBONATE
IN
AQUEOUS
SOLUTION
AT
DIFFERENT
TEMPERATURES
AND
CONCENTRATIONS
OF
THE
REACTANTS.

TEMPERATURE (°C)	CONCENTRATION (M)	RATE OF REACTION (M/L)
25	0.1	0.001
25	0.2	0.002
25	0.3	0.003
25	0.4	0.004
25	0.5	0.005
30	0.1	0.002
30	0.2	0.004
30	0.3	0.006
30	0.4	0.008
30	0.5	0.010
35	0.1	0.004
35	0.2	0.008
35	0.3	0.012
35	0.4	0.016
35	0.5	0.020
40	0.1	0.008
40	0.2	0.016
40	0.3	0.024
40	0.4	0.032
40	0.5	0.040

It is seen from the above table that the rate of reaction increases with increasing temperature and increasing concentration of the reactants. The rate of reaction is also affected by the nature of the reactants and the solvent used.